

*Held Secret Clearance (active as of 2024)

REAZ W. RAHMAN

*US Citizen

Software Engineer

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Skills

Software & Tools: Git, Jenkins (CI/CD), IBM Rhapsody, IBM DOORS, VxWorks, Visual Studio, Docker, Agile (Jira)
Data & Analytics: AWS, Kafka, Akka, Snowflake, Databricks, Apache Flink, Airflow, Relational DBs (PostgreSQL, MySQL), MongoDB
Backend: Python, Java, C++, SQL, Scala, Spring Boot, Flask, REST API, Microservices, ORM, AWS
Front-end: Angular, Typescript, Javascript, React, HTML, CSS (Personal Projects: [Fantasy Cricket](#), [DIY Thermostat](#))

Education

Boston University
Masters of Science in Software Development | GPA: **3.91** / 4.0
• Columbia University | GPA: **3.84** / 4.0 (Transferred)

Macaulay Honors College at City College of New York
Bachelors of Engineering in Electrical Engineering | GPA: **3.87** / 4.0

Experience

Capital One	New York, NY
Senior Software Engineer	10/2022 - Present
System Architecture & 0-to-1 Product Delivery	
<ul style="list-style-type: none">Spearheaded the 0-to-1 architectural design and launch of an enterprise-scale offer fulfillment platform, transitioning the system from discovery to a multi-phased production delivery for hundreds of thousands of concurrent customers.Designed reusable backend services across Java, Scala, and Python, applying clean architecture and design patterns adopted across multiple teams.Designed and implemented comprehensive unit, component, and scenario-based tests in a containerized environment (Docker, Kubernetes, ECS Fargate), enabling production-like validation of distributed services and ML-driven decisioning systems.	
Data Engineering & Backend Development	
<ul style="list-style-type: none">Designed and executed extensive unit, component, and integration testing for distributed services, including virtualized APIs, live dependency testing, and cross-region resiliency validation to ensure reliable failover and disaster recovery behavior.Built and maintained data integrations from multiple enterprise systems including relational databases, streaming platforms, and REST APIs to support downstream analytics.Built production observability and data quality tooling using OpenTelemetry and New Relic, enabling validation of pipeline correctness, performance, and ML model behavior in production.	
L3Harris Technologies	Clifton, NJ
Senior Associate Software Engineer	07/2020 - 10/2022
<ul style="list-style-type: none">Developed messaging-based communication services in C++ for embedded systems, implementing protocols including MilStd1553 and APG83, translating hardware datasheet specifications into robust software message definitions.Initiated and led the development of multiple automation programs in Python, reducing development time by 80% across 5 major projects, demonstrating significant cost savings and efficiency improvements (est. savings 350K/year).Developed messaging patterns (synchronous and pub-sub) for Electronic Counter Measure and Built-In Testing components, integrating hardware/firmware drivers and relational database APIs to enable reliable inter-service communication.	
Northrop Grumman	Baltimore, MD
Software Engineering Intern	06/2019 - 02/2020
<ul style="list-style-type: none">Developed a tool to optimize Rapid Quantum Logic (RQL) circuit design parameters using machine learning algorithms, and built a Python-based user interface to enable engineers to configure experiments and analyze results.	

Projects

- Fantasy Cricket Site (Full-stack):** Angular, AWS Lambda, DynamoDB, Python, PostgreSQL, serverless microservices. [Link](#)
- Machine Learning Cricket Prediction:** Python, ML, data science, feature engineering, model evaluation. [GitHub](#)
- DIY Thermostat (Full-stack):** Javascript/React frontend, Flask/Python backend, concurrency, embedded hardware. [Link](#)
- Stock Portfolio Management:** Java Swing GUI, Spring Boot API, concurrency, design patterns. [Link](#)